

An Experimental Study of Vortex Flow Near an
Isolated Body of Revolution and a Body of
Revolution With a Wing and Fins at Mach 2, by
V. I. Alferov. 6 pp.

RUSSIAN, per, Izvestiya AN SSSR, Mekhanika
Zhidkosti i Gaza, No 5, 1968, pp 158-160.

~~FTD S-7566~~ 380-69

AEC/SC-TN-1033-69

380-69 NTC 70-10116-20D

july 69

387,503

Aerodynamic Characteristics of Delta Wings During
Supersonic Flow at Large Angles of Attack, by

M. P. Falunin. 4 pp.

RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhukosti i Gaza, No 5, 1968, pp 154-157.

FTD S-7225 580-69

380-69

july 69

387,502

Delta Wing With Blunted Edges at a Small Angle
of Attack in Hypersonic Flow, by A. V. Krasil'nikov.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika,
Zhukosti i Gaza, No 5, 1968, pp 149-154.
FTD HT Special 547-69

dec 69

398,554

Gas Escape into a Vacuum, by G. A. Luk'yanov,
V. A. Silant'yev.

RUSSIAN, per, Izv ANSSSR, Mekh Zhidk i Gaza,
No 5, 1968, pp 146-149.

CIA X-6849

Jan 69

373,260

Determining the Effect of Injection of Various
Gases in the Boundary Layer on Friction and Heat
and Mass Exchange With Gradual Change of External
Flow Velocity, by A. A. Frolov.

RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhidkosti i Gaza, No 5, 1968, pp 137-142.

FTD HT Spe cial 547-69

dec 69

398,553

On Diffusion of Suspended Particles in an Isotropic
Turbulent Field, by Y. A. Buyevich.

RUSSIAN, per, Izvestiya AN SSSR, Mekhnika Zhidkosti
i Gaza, No 5, 1968, pp 89-99.

*FTD HT Special 88-70

May 70

Bodies of Revolution With Minimum Drag Factor and
Low Heat Transfer at High Supersonic Flight
Speeds, by G. L. Grodzovskiy. 17 pp.

RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhidkosti i Gaza, No 5, 1968, pp 79-88.

FTD S-750A 380-69

380-69

july 69

387,501

Hypersonic Flow Past Delta Wings of a Certain
Class Mounted at an Angle of Attack and With an
Attached Shock Wave, by A. I. Golubinskiy.
RUSSIAN, per, Izvestiya AN SSSR, Mekhanika
Zhidkosti i Gaza, No 5, 1968, pp 73-78.
FTD HT Speical 547-69

NTC 70-10751-01A

dec 69

398,552

Use of the Warped Body Method in Problems of
Nonstationary Hypersonic Flow Past Slender Bodies,
by V. V. Lunev.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika Zhidkosti
i Gaza, No 5, 1968, pp 64-72.
FTD HT Special 547-69

dec 69

398,551

Uniqueness of Self Similar Solutions for Equations
of a Three-Dimensional Laminar Boundary Layer,
by V. A. Bashkin.

RUSSIAN, per, Izvestiya AN SSSR, Mekhanika
Zhidkosti i Gaza, No 5, 1968, pp 35-41.

FTD HT Special 546-69

oct 69

394,167

Field of Velocities, Excited by Wing Vibrations,
Propagating Over the Surface, by
Vo. A. Krasil'shchikova. 8 pp.

RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhidkosti i Gaza, No 5, 1968, pp 29-34.

~~S-621-RFD~~

F7D Special HT 271-69

june 69

383,025

Theory of Stationary Separation Zones, by
G. I. Taganov.

RUSSIAN, per, Izvestiya AN SSSR, Mekhanika
Zhidkosti i Gaza, No 5, 1968, pp 3-19.

FTD HT Special 546-69

oct 69

394,166

Selection of an Optimum Blunting Radius of an
Axially Symmetrical Body With Consideration of
Surface Radiation, by V. Ya. Borovoy. 6 pp.
RUSSIAN, per, Izv. AN SSSR, Mekhanika Zhidkosti
i Gaza, No 4, 1968, pp 193-196.
FTD-HT-482-69 Spec

Atc/sec 1 to 4018

aug 69

389,811

Experimental Investigation of the Aerodynamic
Characteristics of a Sphere in Free Flight at Mach
Numbers up to ~ 15 , by A. P. Krasil'shchikov,
V. P. Podobin, 5 pp.

RUSSIAN, per, Izvestiya Ak Nauk SSSR, Mekhanika
Zhidkosti i Gaza, No 4, July-Aug 1968, pp 190-193.

AEC/SC/T-69-1028

NTC 70-10499-01A

July 71

Nonstationary Flow Around a Cone with Disk
Panel of a Supersonic Stream, by

B. N. Dan'kov, V. L. Novikov.

RUSSIAN, per, Izvestiya AN SSSR, Mekhanika
Zhidkosti i Gaza, No 4, 1968, pp 184-189.

FTD-S-500 / Apr 69

Apr 69

379,953

Advance of a Shock Wave on a Wedge Moving at
Supersonic Velocity, by G. M. Arutyunyan
RUSSIAN, per, Izvestiya AN SSSR, Mekhanika
Zhidkosti i Gaza, No 4, 1968, pp 166
FTD-HT-Special 295-70

oct 70

Vortices Behind a Forward Shock, by G. I. Maykapar.
6 pp.

RUSSIAN, per, Izvestiya. AN SSSR. Mekhanika
Zhidkosti i Gaza, No 4, 1968, pp 162-165.

FTD S-698 ~~3~~78-69

july 69

384,269

Effect of Initial Various Density on the
Movement of a Shock Wave, by R. M. Zaydel.
RUSSIAN, por, Izv AN SSSR, Mekh Zhidk i
Gaza, No 4, 1968, pp 152-162.
FTD-S-398 115-69

Mar 69

376,314

On Flows With Subsonic Singularity on a Shock
Wave, by Ye. G. Shifrin.
RUSSIAN, per, Izv. AN SSSR. Mekhanika Zhidkosti
i Gaza, No 4, 1968, pp 149-152.
FTD Special HT 578-69

nov 69

396,966

~~Number~~

Numerical Solution of the Problem of Supersonic
Flow Over a Delta Wing of Arbitrary Shape in the
Compression Region, by G. P. Voskresenskiy.

RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhidkosti i Gaza, No 4, 1968, pp 134-142.

PTD Special HT 578-69

CIA X-7221

nov 69

396,967

Transonic Flow Past Slender Bodies, by Yu. B. Lifshits
12 pp.

RUSSIAN, per, Izv. Akad. Nauk SSSR, Mekhan Zhidkosti 1
Gaza (Moscow), Jul-Aug 1968 p 129-133. No 4

NASA-TT-F-13251

NTC 72-13985-200

FTD-Special 221-69

Mar 71

A Case of an Analog of the Nonstationary Aerodynamic Characteristics of Wings, by
I. S. Shcherbakov.

RUSSIAN, per, Izvestiya AN SSSR, Mekhanika
Zhidkosti i Gaza, No 4, 1968, pp 126-129.
FTD HT Special 574-69

nov 69

395,405

Flows in Jets Expelled from Underexpanded
Nozzles, by V. N. Gusev, T. V. Klimova.
RUSSIAN, per, Izv AN SSSR, Mekh Zhidk
Gaza, No 4, 1968, pp 121-125.
NASA TT F-12,131

Sci-Prop & Fuels
June 69

383,227

Calculation of Laminary Boundary Layer Along the
Line of Spreading of the Frontal Surface of a
Segmental Body in a Supersonic Gas Stream, by
S. N. Seliverstov. 9 pp.
RUSSIAN, per, Izv. AN SSSR. Mekhanika Zhidkosti
i Gaza, No 4, 1968, pp 109-114.
FTD-HT-482-69 Spec

AEC/SC-TR-4012-70

JPRS 56607

aug 69

389,810

Approximate Calculation of the Critical
Attachment and Separation Pressures of
the Turbulent Boundary Layer in Super-
sonic Flow, by L. V. Gogish.
RUSSIAN, per, Izv AN SSSR, Mekh Zhuk
Gaza, No 4, 1968, pp 103-108.
NASA TP F-12,132

APL/JHU T-2237

NTC 70-10006-20D

Sci-Phys Prop & Fuels
June 69

383,226

On Three-Dimensional Waves in the Boundary
Layer, by S. Ya. Gertsenshteyn.
RUSSIAN, per, Izv AN SSSR, Mekh Zhid i Gaza,
No 4, 1968, pp 98-102.
CIA X-6825

Dec 68

371,001

Calculation of the Turbulent Wake in a Flow
Around a Body of Poor Aerodynamic Shape in a
Subsonic Flow, by B. G. Khudenko.
RUSSIAN, per, Izvestiya AN SSSR, Mekhanika
Zhickosti i Gaza, No 4, 1968, pp 92-97.
FTD Special MF578-69

396,968

nov 69

Structure of Turbulent Flow in a Tube,
by B. G. Vager.
RUSSIAN, per, Izv Ak Nauk SSSR, Mekh
Zhidk i Gaza, Jul-Aug 1968, pp 89-92.
NASA TT F-12,128

Sci-Phys
June 69

384,124

On the Change in the Motion Regime and Drag
Reduction During Insertion of Particles in a
Viscous Fluid Stream, by D. A. Askerov, et al.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhidkosti i Gaza, No 4, 1968, pp 80-83,
FTD HF Special 87-70

apr 70

405,897

Movement of a Body of Small Dimensions in Water
in the Presence of an "External Flow", by
S. S. Grigoryan, Yu. L. Yakimov.
RUSSIAN, per. AN SSSR. Izvestiya. Mekhanika Zhidkosti
i Gaza, No 4, 1968, pp 76-80.
FTD-S-320 230-68

Jan 69

374,346

one Dimensional Approximation Solution of a
Variational Problem on Design of a Maximum
Thrust Nozzle With Foreign Particle Gas Flow,
by A. M. Krayko, V. K. Starkov, et al. 16 pp.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhukosti i Gaza, No 4, 1968, pp 52-62.
AIR/FTD/HT-23-195-69

sci/propulsionand fuels

Analysis of Perfect Gas Flow Around Elliptic Cones
at High Angles of Attack, by A. P. Bazzhin,
O. N. Trusova.
RUSSIAN, per, Izv AN SSSR, Mekh Zhidk i Gaza, No 4,
1968, pp 45-51.
CIA X-6805

Nov 68

354,072

Calculation of the Flow Around Wings of Arbitrary Planform in a Wide Range of Angles of Attack, by S. M. Belotserkovskiy.

RUSSIAN, per. Izv Ak Nauk SSSR, Otd Tekh Nauk
Mekh Zhidkosti i Gaza, No 4, July-Aug 1963,
pp 32-44.

NASA TT F-12,291

Sci-Aero
Sept 69

391,524

On the Effect of Normal Stresses in a Steady
State One-Dimensional Flow of Melts of
Polymers, by A. I. Leznov, et al.
RUSSIAN, per, Izvestiya AN SSSR, Mekhanika
Zhichkosti i Gaza, No 3, 1968, pp 184-189.
FTD HT Special 86-70

apr 70

405,853

Panov Yu A.

Interaction of an Incident Three-Dimensional
Shock Wave with the Turbulent Boundary Layer

Transactions of the Acad. of Science USSR, Mec-
hanics of Fluids and Gases, no. 3, 1968 p158-
161 4 pp

Language Russian

Special Instructions: Please translate & type
1 copy.

FTD HT Special 291-70

On a Computation of the Supersonic Flow Around
Blunt Bodies by Utilizing the Complete Navier-
Stokes Equations, by B. M. Pavlov.
RUSSIAN, per, Izv ANSSSR, Mekh Zhuk i Gaza, No 3,
1968, pp 128-133.
CIA X-6765

NTC 69-11608-014

Oct 68

369,348

Results of Calculation of a Gas Flow with
Particles in Axisymmetric Nozzles by the
Method of Characteristics and Comparison
with the Results of One-Dimensional Approxi-
mation, by L. P. Vereshchaka and N.S. Galyun
RUSSIAN, per, AN SSSR, Izv., Mekhan.
Zhidkosti i Gaza, No 3, 1968, pp 123-128.
Dept of Navy APL/JHU T-2219

CIA X-6672

Sci-Physics
Feb 69

369,639

Exact Solution of the Equations of Gas Dynamics,
by G. I. Nazarov.

RUSSIAN, per, Izv AN SSSR, Mekh Zhidkosti i
Gazov, No 3, 1968, pp 113-120.

Dept of Navy APL/JHU T-2302

FTD HT Special 311-49

Sci-Phys
Sept 69

391,504

On an Exact Solution of One-dimensional Navier-Stokes Equations, by V. N. Gusev, A. V. Zhabkova.
RUSSIAN, per, Izv AN SSSR, Math Zhidkosti i
Gazov, No 3, 1968, pp 109-112.

Dept of Navy APL/JHU T-2301

FTD HT Special 311-69

Sci-Math
Sept 69

391,503

Calculation of the Detached Flow Between Two
Bodies, by Yu. L. Karpov, et al. 17 pp.
RUSSIAN, per, Izv. AN SSSR, Mekhanika i Gaza,
No 3, 1968, pp ~~88~~94. pp 88-94
FTD-HT-349-69 Spec

aug 69

389,805

On One Method of Computation of Oscillations
of a Fluid, Partially Filling An Elastic
Shell of Revolution, by E.T. Grigolyuk.
RUSSIAN, per, AN SSSR. Izvestiya Mekh.
Zhidkosti i Gaza, no 3, 1968, pp. 74-80.
FTD HT Special 96-70

Apr 70

405,905

Regimes of Laminar Steady Flows of Two-component
Dispersed Systems Vertical Flows, by
Y. A. Buyevich
RUSSIAN, per, Izvestiya AN SSSR Mekhanika
Zhidkosti i Gaza, No 3, 1968, pp 53-62.
FTD III Special 86-70

apr 70

405,852

Contribution to the Theory of a High Com-
pression Gas Ejector with a Cylindrical
Mixing Chamber, by C. L. Grodzovskiy.
RUSSIAN, per, Izv AN SSSR, Mekh Zhidk i
Gaza, No 3, 1968, pp 35-44.
NASA TT F-12,139

Sci-Phys
July 69

388,2574

Rarefied Gas Flow Near the Forward
Stagnation Point of a Blunt Body at
Hypersonic Velocities, by V. S.
Avduevskii, A. V. Ivanov.
RUSSIAN, per, Akademiya Nauk SSSR.
Izvestiya. Mekhanika Zhidkosti i Gaza,
No 3, 1968, pp. 26-34.
NTC 69-11606-01A

Sci-Aero
July 69

387,527

Solution of the System of Motion Equations of a
Selectively Radiating Gas in the Shock Layer, by
N. A. Anfinov, V. I. Shari.
RUSSIAN, per, Izv ANSSSR, Mekh Zhidk i Gaza, No 3,
1968, pp 18-25.
CDA X-6764

NTC 69-11607-01H

Oct 68

369,349

Laminarization of the Boundary Layer on a
Wing Profile by Means of Distributed Suc-
tion, by A. D. Tokhunts.

RUSSIAN, per, Izv Ak Nauk SSSR, Mekh
Zhuk i Gaza, No 2, 1958, pp 117-121.
NASA TT F-12,021

FTD Special 8-69

Sci-Aero

Mar 69

377,550

Aerodynamic Characteristics of Conical Non-Axis-
ymmetric Bodies, by A. I. Shvets.
RUSSIAN, per, Izvestiya AN SSSR, Mekh Zhidkosti
i Gaza, No 2, 1968, pp 112-116.
CIA X-6697

Aug 68

357,512

Interaction of a Gas Jet Issuing from an
Orifice in a Plate and a Supersonic Stream,
by A. I. Glagolev and A. I. Zubkov
RUSSIAN, per, AM SSSR, Izv., Mekhan. Zhid-
kosti i Gaza, No 2, 1968, pp 99-103.
Dept of Navy APL/JHU T-2217

Sci-Physics
Feb 69

369,637

One-Dimensional Nonequilibrium Airflow, by
V. P. Stulov, V. P. Shkadova. 11 pp.
RUSSIAN, per, Izvestiya Akademiya Tekhnika i
Zhivoti i Gaza, no 2, 1968, pp 81-86.
AIR/PTD/AT-23-197-69

physics
MAR 70

402,814

On the Transition of a Plane Overdriven Detonation Wave to the Chapman-Jouquet Mode, by V. A. Levin, 11 pp.

RUSSIAN, per. Izvestiya AN SSSR, Mekhanika Zhidkosti i Gaza, Moscow, No 2, Mar-Apr 1968, pp 50-55.

JPRS 47151

~~FTD~~ *FTD Special 10-69*

Sci-Phys
Jan 69

372,742

Heat and Mass Transfer Enhancement, by
L. A. Vulis.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhidkosti i Gaza, No 1, 1968, pp 142-146.
FTD-HT-Special 294-70

oct 70

Frontal Resistance of a Rotating Sphere,
by R. I. Ovseyenko.
RUSSIAN, per, Izvestiya ANSSSR, Mekh Zhid
i Gaza, No 1, 1968, pp 110-118.
FTD-S-344 /2-69

Feb 69

3753829

Variational Problem of the Shape of a Minimum-
Drag Body With Given Volume and Area of the
Side Surface, by O. I. Bogomolov.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR,
Mekhanika Zhidkosti i Gaza, 1968, pp 106-110.
NASA TT F-11,033

Sci
Dec 68

368,789

Particular Features of Heat Exchange on
the Surface of Certain Carrying Bodies
at High Supersonic Speeds, by
V. Ya. Borovoy, R. Z. Davlet-kil'deyev.
RUSSIAN, per, Izvestiya AN SSSR, Mekh
Zhidkosti i Gaza, No 1, 1968, pp 101-
106.

AIR/FTD/NT-24-282-68

Sci-Phys
Apr 69

380,522

A Variation Problem in Supersonic Gas Dynamics, by,
M.Ya. Ivanov.

RUSSIAN, per, AN SSSR Izvestiya. Mekhanika Zhidosti
i Gaza, No 1, 1968, pp 97-100.

FTL-S-328 2-67

Feb 69

374,276

Measurement of the Drag of a Star-Shaped Body
in Supersonic Flow at $M_{\infty} 6$ and 8, by A. L. Gonor.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR,
Mekhanika Zhidkosti i Gaza, No 1, 1968, pp 94-97.
NASA TT F-11,834

Sci
Dec 68

371,063

Approximate Method of Calculating a Turbulent
Boundary Layer in the Presence of a Positive
Pressure Gradient, by A. N. Antonov,
Ye. N. Bondarev.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR.
Mekhanika Zhidkosti i Gaza, No 1, 1968,
pp 64-66.
NASA TT F-11,873

Sci
Dec 68

368,777

Multicomponent Turbulent Boundary Layer on
Chemically Active Surface, by V.D. Sovetskii
17 pp.

RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhidkosti i Gaza, No 1, 1968, pp 47-55.
ATP/TID/MT-23-1001-68

sci/physics
apr 69

380,038

Structure of Diffusive Psued-Turbulence,
by Y. A. Izgevlch, et al.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhidkosti i Gaza, No 1, 1968, pp 33-39.
FTD HT Special 85-70

apr 70

405,896

Supersonic Flow Around of a Sphere by a
Combustible Mixture of Gases with Consid-
eration of Ignition Delay Time, by
S. M. Gilinskiy, G. G. Chernyy.
RUSSIAN, Izvestiya AN SSSR, Mekhanika
Zhidkosti i Gaza, No 1, 1968, pp 20-32.
AIR/FTD/MT-24-287-68

Sci-Prop & Fuels
Apr 69

380,338

Double Mach Reflection of Strong Shock Waves,
by I. G. Gvozdeva, O. A. Predvoditel'seva.
RUSSIAN, per, An SSSR, Izv Mekhan Zhidkosti i
Gaza, No 1, 1968, pp 12-19.
Dept of Navy API/JHU T-2186

Sci
Dec 68

368,656

Three-Dimensional Movement of the Interface
of Two Ponderable Viscous Liquids in a Por-
ous Medium, by Yu. S. Abramov.
RUSSIAN, per, Izv AN SSSR, Mekh Zhidk Gaza,
No 1, 1968.

International Chemical Engineering
Vol 9, No 2, Apr 1969
Available from Am Inst of Chem Engrs

June 69

383,473

DIFFUSION OF a Fluid in a Media with Random Porosity,
by Y. A. Buyevich, A. L. Leonov.

RUSSIAN, per, Izvestiya AN SSSR, Mekhanika Zhidkosti
i Gaza, No 6, 1967, pp 167-175.

*FTD HT Special 84-70

May 70

Three-Dimensional Supersonic Flow Past a
Delta Wing with Blunted Edges, by
K. M. Magomedov, A. S. Kholodov, 8 pp.
RUSSIAN, rpt, AN SSSR. Izvestiya, Mekhanika
Zhidkosti i Gaza, 1967. *July-Aug pp 157-63*
AIR/FTD/HT-23-150-68

Sci-Aeron
Jan 69

370,862

Calculation of Heat Transfer on Frontal
Surface of Bluff Body in Hypersonic Flow,
by Yu. N. Yormuk, V. Ya. Noyland.

RUSSIAN, per, Izvestiya AN SSSR, Mekh
Zhidkosti i Gaza, No 6, 1967, pp 153-156.

AIR/FTD/HT-23-658-68

Navy APL/JR4-7-2157 7pp

AEC-SC-T-68-1538 5pp

Sci-Aero
Apr 69

379,573

Aerodynamic Characteristics of a
Slender Wedge in a Hypersonic Non-
equilibrium Flow, by O. Yu. Polyanskiĭ,
8 pp.

RUSSIAN, per, AN SSSR, Izv., Mekhan.
Zhidkosti i Gaza, No 6, 1967,
pp 133-138.

Dept of Navy APL/JHU T-2169

Sci/Aero
Oct 68

368,949

Experimental Study of Boundary-Layer Control by
Flowing on a Flat Plate for $M = 2.5$, by
V. T. Grin'. 4 pp.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhukovskii i Gagarin, No 6, 1967, pp. 115-117.
AIR/PTD/AF-23-611-68

sci/ physics
sept 69

391,029

Unsteady Gliding and Movement of a Profile
with Run off Vortices, by V. A. Yeroshin.
RUSSIAN, Izvestiya AN SSSR, Mekh Zhidkosti
i Gaza, No 6, 1967, pp 98-104, 118-125,
125-129.
~~FTD-G-472~~

FTD Special 141-69

Mar 69

378,631

On the Theory of the Dilatational Viscosity
Coefficient, by V. M. Kuznetsov. 8 pp.

RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhichkosti i Gaza, No 6, 1967, pp 89-93.

FTD S-642 47-285-69

june 69

384,134

Experimental Investigation of Vortex Flow Near
Wings of Small Aspect Ratio and Round Cones at
Mach Number 2, by V. I. Alferov,
T. I. Okerblom, et al. 15 pp.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
zhidkosti i gaza, No 5, 1967, pp 113-131.
AIR/PID/AT-24-189-68

sci/physics
feb 69

376,488

Certain Questions of the Geometrical Acoustics
of One-Dimensional Nonsteady and Two-Dimensional
Steady Flows, by A. N. Krayko, 11 pp.
RUSSIAN, per, Izv AN SSSR, Mekh Zhid i Gaza,
No 5, 1967, pp 104-109.
AIR/FTD/HT-23-1092-68

Sci/Phy
Nov 69

395,947

M. H. Kogut

Extremal Properties of Plates in Nearly Free
Molecular Flow.

RUSSIAN, per, Akademija Nauk SSSR. Izvestiya.
Mekhanika Zhidkosti i Gaza, No 5, 1967, pp 101-
103.

NTC 72-14068-20D

Nov 72

Numerical Calculation of the Flow
in a Region of Spherical Bluntness
at Small Reynolds Numbers, by
V. S. Gorislavskiy, A. I. Tolstykh.
RUSSIAN, por, Izvestiya Akademii Nauk
SSSR, Mekhanika Zhidkosti i Gaza,
No 5, 1967, pp 93-98.
NASA TT F-11,402

Sci/Math
Oct 68

3694009

Laminar Boundary Layer on Infinitely Long
Elliptical Cylinders at an Arbitrary Angle of
Yaw, by V. A. Dashkin. 11 pp.

RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhukosti i Gaza, No 5, 1967, pp 76-82.
AIR/PTD/PT-24-189-68

sci/physics
feb 69

376,487

Asymptotic Solution of Equations of Incompressible Boundary Layers with a Negative Pressure Gradient at Strong Injections, by V. N. Filimonov.

RUSSIAN, per, Izv Ak Nauk SSSR, Mekh Zhidk i Gaza, No 5, 1967, pp 48-52.

AEC ANL-Trans-576

Sci-Phys

Jul 68

357,314

Calculation of Flow in a Laval Nozzle, by
U. G. Pirumov.

RUSSIAN, per, Izv AN SSSR, Mekh Zhidk i
Gaza, No 5, 1967, pp 10-22.

FTD-S-406 156 69

Apr 69

379,518

Numerical Study of the Three-Dimensional
Boundary Layer in a Compressible Gas, by
Yu. D. Shevelev, 10 pp.

RUSSIAN, rpt, AN SSSR. Izvestiya, Mekhanika

Zhidkosti i Gaza, 1967. *July-Aug. 1967* - pp. 171-177

AIR/FTD/HT-23-150-68

Sci-Aeron
Jan 69

370,863

Experimental Study of the Ration of Heat Capacity
(specific heat) on the bottom pressure After an
Annular Step, by N. N. Slavyanov.

RUSSIAN, per, Izvestiya AN SSSR, Mekhanika
Zhidkosti i Gaza, No 4, 1967, pp 143-144.

FTD HT Special 293-70

oct 70

Acoustic Effect on Aerodynamic Characteristics
of a Turbulent Jet, by Ye. V. Vlasov,
A. S. Ginevskiy. 13 pp.
RUSSIAN, per, Izvestiya. AN SSSR. Mekhanika
Zhidkosti i Gaza, No 4, 1967, pp 133-138.
AIR/FID/IN-24-232-68

Sci/Physics
Feb 69

357,575

ATS

RJ-5722 LINEAR FLOW OF IMMISCIBLE LIQUIDS IN A HETEROGEN-
EOUS POROUS MEDIUM, B. I. Levi and M. I. Shvidler,
Izv. Akad. Nauk SSSR Mekh. Zhidk. Gaza 1967, No.
4, 104-8. Paper presents a numerical soln. taking
into account permeability variations in a forma-
tion.
2200 W; 10 F; 7 R

\$ 9.85 (\$2.90)

Laminar Boundary Layer Near the Corner
Point of a Body, by N. S. Matveyeva,
V. Ya. Neylad.
RUSSIAN, per, Izv AN SSSR, Mekh Zhidkosti
i Gaza, No 4, 1967, pp 64-70.
Dept of Navy APL/JHU T-2239

Sci-Phys
Mar 69

378,638

Slender Two-Dimensional Bodies of Minimum Wave
Drag in a Nonequilibrium Supersonic Flow, by
A. N. Krayko, R. A. Tkalenko.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR,
Mekhanika Zhidkosti i Gaza, No 4, 1967,
pp 56-63.
NASA TT F-11,803

Sci
Dec 68

371,092

Selection of a Wing Shape for Hypersonic
Velocities, by G. I. Mykapor.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR,
Mekhanika Zhidkosti i Gaza, No 4, 1967,
pp 40-49.
NASA TT F-11,802

Sci
Dec 68

371,110

Asymptotic Investigation of Viscous Compressible
Gas Flow Around a Blunt Body, by A. A. Marlov,
L. A. Chudov.
RUSSIAN, per, Izvestiya AN SSSR, OTN Mekh Zhidk
i Gaza, No 4, 1967, pp 29-39.
CIA X-6533

Sci-Phys
Mar 68

347,533

Flow of Radiating Hydrogen in Axially Symmetrical
Nozzles, by V. V. Aleksandrov.
RUSSIAN, per, Izv. Akad. Nauk SSSR, Zhid. Gaza,
No 4, 1967, pp 19-28. P911083368-V
AEC-ANL-Tr-557

Sci/Phys
Apr 68

351,299

Transition of a Combustion Mixture from Super-
sonic Flow to the Chapman-Jouget Regime, by
S. N. Glinitskiy, Z. D. Zapryanov. 8 pp.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhidkosti i Gaza, No 3, 1967, pp 137-140.
AIR/FTD/1-24-280-68

sci/propulsions&fuels
feb 69

375,652

Analysis of Three-Dimensional Flow Past Blunted
Cones by the Method of Characteristics With
Allowance for Balanced Physicochemical Trans-
formations, by K. M. Mayzardov. 12 pp.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhukosti i Gaza, No 3, 1967, pp 130-137.
AIR/MD/MI-24-381-67

sci/physics
may 69

381,106

Numerical Calculation of a Supersonic Flow Past
Ducted Bodies at an Angle of Attack, by
O. N. Katskova, P. I. Chushkin.
RUSSIAN, per, An SSSR, Izv Mekhan Zhidkosti i
Gaza, No 3, 1967, pp 124-130.
Dept of Navy APL/JHU T-21149

/11

Sci
Dec 68

368,676

Application of Method of Straight Lines to
Analysis of Flow Past Conic Bodies at Large
Angles of Attack, by A. P. Bazzhin,
I. P. Chelysheva. 8 pp.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhukosti i Gaza, No 3, 1967, pp 119-123.
AIR/TTD/11-24-381-67

sci/physics
may 69

381,105

An Experimental Investigation of the Effect of
the Mach and Reynolds Numbers on the Structure
of a Supersonic Rarefield Gas Flow in the
Stagnation Region of a Blunt Body, by

A. V. Ivanov.

RUSSIAN, per, Izvestiya Akademii Nauk SSSR,
Mekhanika Zhidkosti i Gaza, No 3, 1967,
pp 109-115.

NASA TT F-11,797

Sci
Dec 68

371,078

Experimental Investigation of Flow
Past Plane Delta Wings at $M = 5$ and
Angles of Attack Ranging From 0 to
70°, by V. A. Bashkin.
RUSSIAN, per, AN SSSR, Izv., Mekhan.
Zhidkosti i Gaza, No 3, 1967,
pp 102-108.
Dept of Navy APL/JHU T-2158

Sci/Aero
Oct 68

368,939

Supersonic Flow Around a Jet-Type Gaseous
Obstacle on a Plate, by A. I. Glagolev,
A. I. Zubkov. et al. 9 pp.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika
Zhidkosti i Gaza, No 3, 1967, pp 97-102.
AIR/FID/AF-24-381-68 AD 675 339
Navy APL/JR4 T-2155-13pp

sci/physics
may 69

381,104

Investigation of a Supersonic Gas Flow and Heat
Transfer in the Region of an Incident Shock
Wave on a Cylinder, by M. P. Teterin.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR
Mekhanika Zhidkosti i Gasa, No 3, 1967,
pp 92-97.
NASA TT F-11,795

Sci
Dec 68

371,153

Towards a Theory of Combined Diffusion of
Immiscible Fluids in a Gravity Field, by
Y. A. Luyevich.
RUSSIAN, per, Azvestiya AN SSSR Mekhanika
Zhidkosti i Gaza, No 2, 1967, pp 165-168
PTD HT Special 33-70

apr 70

405,393

The Wall Effect, by Yu. N. Pavlovskiy.
RUSSIAN, per, Izv Ak Nauk SSSR Mekh Zhidk i Gaza,
No 2, 1967, pp 160-165.
ATS EJ-5406

Sci-Phys
June 70

Experimental Investigation of the Hypersonic
Flow of a Rarefied Gas Around a Sphere, by
F. S. Voronin.

RUSSIAN, per, Izvestiya AN SSSR, Mekhanika
Zhidkosti i Gaza, No 2, 1967, pp 149-151.
NASA TT F-11,194

Sci-Phys
Dec 67

347,580

Investigation of a Supersonic Gas Flow in the
Region Where a Shock Is Incident on a Cylinder,
by M. P. Taterin
RUSSIAN, per, AN SSSR, Izv., Mekhan. Zhidkosti
1 Gaza, No 2, 1967, pp 143-147.
Dept of Navy APL/JHU T-2218

Sci-Physics
Feb 69

369,638

Investigation of Flow Structure Behind a Cone
in Supersonic Flow, by Yu. A. Panov, A. I. Shvets.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR.
Mekhanika Zhidkosti i Gaza, No 2, 1967,
pp 140-143.
NASA TT F-11,877

Sci
Dec 68

371,122

Method of Calculating a Supersonic Three
Dimensional Flow Around Smooth Bodies, by
V. S. Minostsev.

RUSSIAN, per, Izvestiya AN SSSR, Mekh
Zhidkosti i Gaza, No 2, 1967, pp 126-133.

FTD-S-481 154-69

Mar 69

378,664